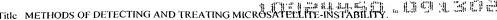
	OIP E VC,
	SEP 1 3 2002
/3	SEP 1 3 2002 E

60	120	180	240	300	360
59	119	179	239	295	355
60	120	180	240	300	360
MOMITEBVA ATETLAEVPE HVLRGLPEEV RLFPSAVDKT RIGVWATKPI LKGKKFGPFV MOMITEBVA ATETLAEVPE HVLRGLPEEV RLFPSAVDKT RIGVWATKPI LKGKKFGPFV MOMITE VA ATETLAEVPE HVLRGLPEEV RLFPSAVDKT RIGVWATKPI LKGKKFGPFV	GDKKKRSQVK MNVYMJEVYY PNLGMMCIDA TDPEKGNWLR YVNWACSGEE QMLFPLEINR GDKKKRSQVR MNVYMJEVYY PNLGMMCIDA TDPEKGNWLR YVNWACSGEE QNLFPLEINR GDKKKRSQV MNVYMJEVYY PNLGMMCIDA TDPEKGNWLR YVNWACSGEE QNLFPLEINR	AIYYKTLKPI APGEELLVWY NGEDNPEIAA AIEEERASAR SKRSSPKSRK GKKKSGENKN AIYYKTLKPI APGEELLVWY NGEDNPEIAA AIEEERASAR SKRSSPKSRR CKKKS-ENKN AIYYKTLKPI APGEELLVWY NGEDNPEIAA AIEEERASAR SKRSSPKSR. GKKKS ENKN	KGVKIQDIQL KUSEHDATBA NMRGSAEGPK EDBENPBASA LEOPAHLIEV ASGEVRPELA KGIRTHPTOL KASELDATBA NMRUSAEGPK EEGEMMASA FEOPAHLEEV GNODAVPOVA KGQL K SELDITA NMR SAEGPK E. E.P. ASA LEOPALLEV . DP. A	TPPPA-EPOP EFICERIÉRAA CEVNDLOEEE RÉEÉEETEEE EEDDDDBILE DECHÉEASAMP IPLPA-EPOP EVICKOEVTD CEVNDVIREEE RÉEÉEE EEEE EEE	NENSWKEPEI RCHEKPEDLL EEPKTISHEIR LEDCSHYTPA MOIPRINEEA NGDVHETFME NEBSYKEPEI RCHEKPEDLL EEPJSMSNEA HEDSPUNTPP PHIPRAHEEA NGDVHETFME ND SKEPEI RG EKPEDLL EEP 18 E. ED NTP PR. EEA NGDV ETFMF
hRIZ	hR12	hR12	hRIZ	hRI2	hR12
rRIZ	rR12	rR12	rRIZ	rRI2	rR12
Consensus	Consensus	Consensus	Consensus	Consensus	Consensus

Title. METHODS OF DETECTING AND TREATING MICROSATELLITE-INSTABILITY.

Inventors: Huang and Chadwick
Serial No 10/024,450
Filing Date December 17, 2001
Attorney Docket: P-LJ 5101
USPTO Customer No 23601 (858-535-9001)

420	480	539	599	659	719
415		533	593	653	713
420		540	600	660	720
PCONCERKED TROCLERHMI IHISTAMIAF KCKYCGKHEG TQINRRAHER RHENGLKRHE	STELCHSEDE ADGRAGGENV MSKETSSPPS LECHOCLIANS ERMSCOTINS SAVEENGEVR SYFECHSEDP EDGRA-GENV MSKETSSPP) LECHOCLIANS ERMSCOVINS STVEENGEVR STLE SED OGKGENV SKE SSPP. LE DCLIANS EN SO NS S. VEENGEVR	ELHPCKYCKK VFGTHTNMRR HORRVHERHL IPKGVRRKGG LHEHOOPPAE OADATONVYV	PSTEPEEEGE HODVYIMDIS SNISENLNYY IDGKIQTNNN TSNCDVIEME SYSALLYGIN	CLLTPVTVEI TQNIKHTQVP VTBOLLREPL GSTNSEFKKR RTASPPALPK IKRETISDPA	VPSCSLSLPL SISTMENVSF HKEKSVYLSS KLKQLLQTQD KLTEPAGUSA NEIPKLGPVC
PCQNCERKEA TRQCLERHMI IHISTIMHAF KCKYCGKHEG TQINRRRHER RHENGLKRHE		ELHPCKYCKK VFGTHTNMRR HORRVHERHL IPKGVRRKGG LIETFOPPAE OAPPEONVYV	PSTEPEEEGE HODVYIMDIS SNISENLNYY IDGKIQTNSS TSNCDVIEME SNSA-LYGID	CLLTPVTVEI TQNIKETQVS VTGOLINOSP SSTNCESKKR RTASPPALPK IKHETISDST	PPSCSLSLPL SISTPELVSF HKEKSVYLSS KLKQLLQTQD KLTLPAGSSA PEIFKLGPVC
PCQNCERKE: TRQGLERHMI IHISTIMIAF KCKYCGKIEG TQINRRRHER RHEIGLKRE		ELHPCKYCKK VFGTHTNMRR HORRVHERHL IPKGVRRKGG L'ELFOPPAE OA	PSTEPEEEGE DDVYIMDIS SNISENLNYY IDGKIQTN. TSNCDVIEME S.SA.LYGI.	CLLTPVTVEI TQNIKITQV VTI DLIKI STN.E.KKR RTASPB-LPK IKIETISD	PSCSLSLPL SIST E VSF HKEK VYLSS KLKQLLQTQD KLT PAG SA EI KLGPVG
hR12	hR12	hRIZ	hRIZ	hR12	hRIZ
rR12	rR12	rRIZ	rRIZ	rR12	rRIZ
Consensus	Consensus	Consensus	Consensus	Consensus	Consensus





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1 1
SDSPAWSLSG RDERETHSPP CFDEYKHSKE SDSPAWSLSG RDERETHSPP CFDEYKHSKE SDSPAWSLSG RDERETHSPP CFUEYK SKE
KTPVTMESVL DLSVHKKACS KTPVTMESVL DLSVHKKAC KTPV MESVL DLSVHKK C
I TEMPORAD CTRSPSPCKS LENGPOPTICS VSLPHELG VTRSPSPCKS, POTOPDPTICS LE
SCOLPPLLING THESSPENCE PULTVATEPE PLLETVELSA PSSHASPHEC PSPLSNATAO SCOLPPLLING THESSPENCE PSPLSNATAO SCOLPPLL PT PSSENGE PSPLSNATAO SCOLPPLL PT PSSENGE PSPLSNATAO PLLETVEL PSSENGE SN TAO
SPLPILSPTV SPSPSPIPPV EPLMSAASPC PPTLSSSSSS SSSSSSSS SISHSPP-SPLPILSPTV SPSPSPIPPV EPLMSAASPC PPTLSSSSSS SSSPASSIS SIISHSPP-SPLPILSPTV SPSPSPIPPV EPLMSAASPC PPTLSSSSSS SSSPASSIS SISHSPP-SPLPILSPTV SPSPSPIPPV EPLMSAASPC PPTLSSSSSS SSS



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1138	1198	1258	1318	1378	1438
1126	1186	1246	1305	1365	1425
1140	1200	1260	1320	1380	1440
LSAUSSVVSS GONLEASLPA 19FKQEE EN EGLKPPEEPQ SAABODVAVQ ETFYKNFUCN	VCESPFLSIK DLTKHLSDYA EEWPFKCEFC VQLFKTKTDL SEHRFLLHGV GNIFVCSVCK	KEFAFLCNLQ QHQRDLHPDK WCTHHEFESG TLRPQNFTDP SKANVEHMES LPETPLETSK	EEEGLNDSSE ELYTTIKIMA SGIKTKDPDV RLGLNQHYPS FKPPPFQYHH RNPMGIGVTA	TNFTTHNIPQ TFTTAIRCTK CGKGVDNMPE LHKHILACAS ASDKKRYTPK KNPVPLKQTV	OPKNGVVVLD NSGKNAFRRM GOPKRLNFBV ELEKMSENKL KLAALKKKNO LVQKAILOKN
LSAUSSVVSS GDNLEASLPA VIFKQEE ES EGLKPPEEAP PAGGS-VVQ ETFEKNFUCN	VCESPFLSIK DLTKHLSAYA EEWPFKCEFC VQLFKYKTDL SEHRFLLHGV GNIFVCSVCK	KEFAFLCNLQ QHQRDLHPDE WCTHHEFESG TLRPQNFTDP SKANVEHMES LPETPLETSR	EEEHLNDSSE ELYTTIKIMA SGIKTKDPDV RLGLNQHYPS FKPPPFQYHH RNPMGIGVTA	TNFTTHNIPQ TFTTAIRCTK CGKGVDNMPE LHKHILACAS ASDKKRYTPK KNPVPLKQTV	OPKNGVVVLD NSGKNAFRRM GOPKRLTF V EL KMSENKL KLAALKKKNO LVQKAILOKN
LSA SSVVSS GDNLEASLB. FKQEE E. EGLKP EE A. G. NVO ETFIKNF CN	VCESPFLSIK DLTKHLS HA EEWPFKCEFC VQLFK KTDL SEHRFLLHGV GNIFVCSVCK	KEFAFLCNLQ QHQRDLHPD. WCTHHEFESG TLRPQNFTDP SKANVEHM S LPE PLETS	EEE LNDSSE ELYTTIKIMA SGIKTKDPDV RLGLNQHYPS FKPPPFQYHH RNPMGIGVTA	TNFTTHNIPQ TFTTAIRCTK CGKGVDNMPE LHKHILACAS ASDKKRYTPK KNPVPLKQTV	OPKNGVVVLD NSGKNAFRRM GOPKRL F V EL KMS NKL KLALKKKNO LVOKAILOKN
hR12	hRIZ	hRI2	hRIZ	hRIZ	hRI2
rR12	rRIZ	rRI2	rRIZ	rRIZ	rRI2
Consensus	Consensus	Consensus	Consensus	Consensus	Consensus



Title: METHODS OF DETECTING AND TREATING MICROSATELLITE-INSTABILITY.

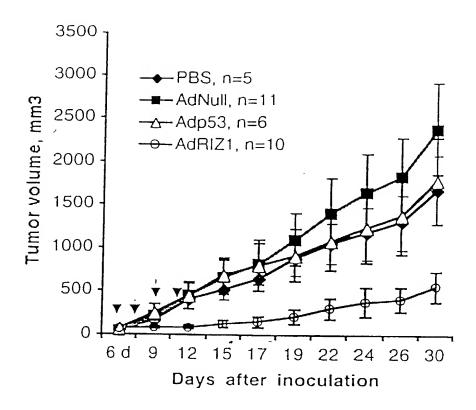
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hRI2 rRIZ Consensus	KSAKOKADLA NAGESSHIC PYCNREFTYI GSLNKHAAFS CPKKPLSPAK HKVSHSSKKG RAAKOKADLA DTGEPSSHIC PYCHREFTYI GSLNKHAAFS CPKKPLSPAK HKVSHSSKKG AKOKADL E SSHIC PYCHREFTYI GSLNKHAAFS CPKKPLSP K KVSHSSKKG	1498 1485 1500
hRIZ	CHESPASSOK INSNSNHRRRT ADMEIKMOSM OMPLCKTRAR SECPTOVELP SSSFRSFONV	1558
rRIZ	CHASSESSOR INSECHHRRRT ADMEIKMOST ONPLCKTRAR SICPMONSELP SSSFRSFONV	1545
Consensus	CH S SSD NS RRRT ADMEIKMOST ONPLCKTRAR SICPIO LP SSSFRSFONV	1560
hRIZ	KFAASVKSKK ASSSSLRNSS PIRMAKITHV EGKKPKAVAK NHSAQLSSKT SRELHVRVQK	1618
rRIZ	KFAASVKSKK ASSSSLRNSS PIRMAKITHV EGKKPKAVAK SHSAQLSSKS SRTLHVRVQK	1605
Consensus	KFAASVKSKK SSSSLRNSS PIRMAKITHV EGKKPKAVAK HSAQLSSK SR.LHVRVQK	1620
hRIZ	SKAVĮOSKST LASKARTDRF NIKSRERSGG PATRSLQLAA AADLSENKRE DISAKGELKD	1678
rRI2	SKAVIQSKTA LASKARTDRF IVKSRERSGG PITRSLQLAA AADLSESRRE DISARHELKD	1665
Consensus	SKAVĮOSKI. LASKIRTDRF KSRERSGG PITRSLQLAA AADLSE RE DISA ELKD	1680
hRIZ rRIZ Consensus	FSYSLRLASR CSPPAAHYIT ROHRKVKALA AAGFOOPFIK E-FSYSLRLASR CSSTAFYIT ROCRKVKALA ATHFOOPFIK EKFSYSLRLASR CA.YIT ROLRKVKA.A A. FOOPFIK E.	1719 1707 1722



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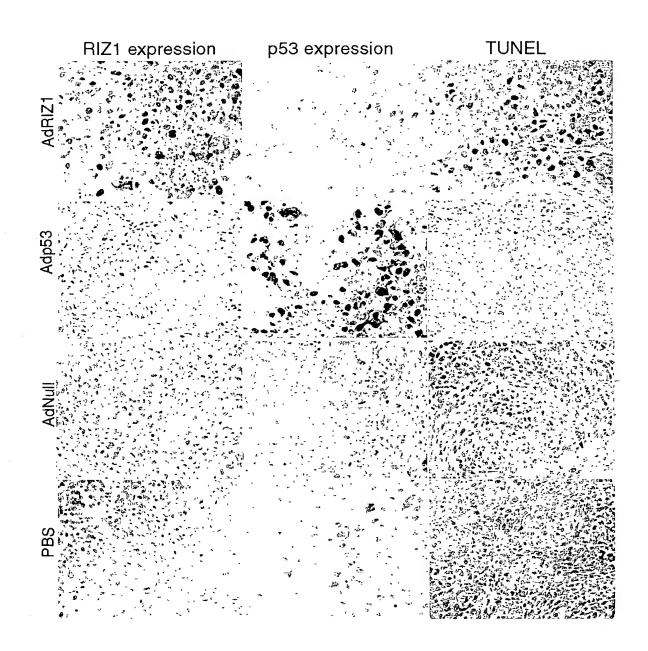


FIGURE 3